

# SIMON FRASER UNIVERSITY

S. 83-37

## MEMORANDUM

AS EDITORIALIZED AT  
SENATE 11/4/83

To..... SENATE.....

From..... SENATE COMMITTEE ON ACADEMIC PLANNING/  
SENATE COMMITTEE ON UNDERGRADUATE STUDIES.

.....  
I. NEW HONORS PROGRAMS:- (i) B.Sc.  
Subject..... Honors in Applied Physiology, (ii)  
B.Sc. Honors in Sports Science;

.....  
Date..... 24 MARCH 1983.

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II. PROPOSED NEW COURSE - KIN. 499-15 -  
Individual Study Semester.

The proposals on new Honors programs were considered by the Senate Committee on Academic Planning at its meeting of February 16, 1983. There was approval of the following motion:

"That SCAP approve, and recommend approval to Senate, the following programs in Kinesiology, (i) B.Sc. Honors in Environmental/ Applied Physiology, (ii) B.Sc. Honors in Sports Science"

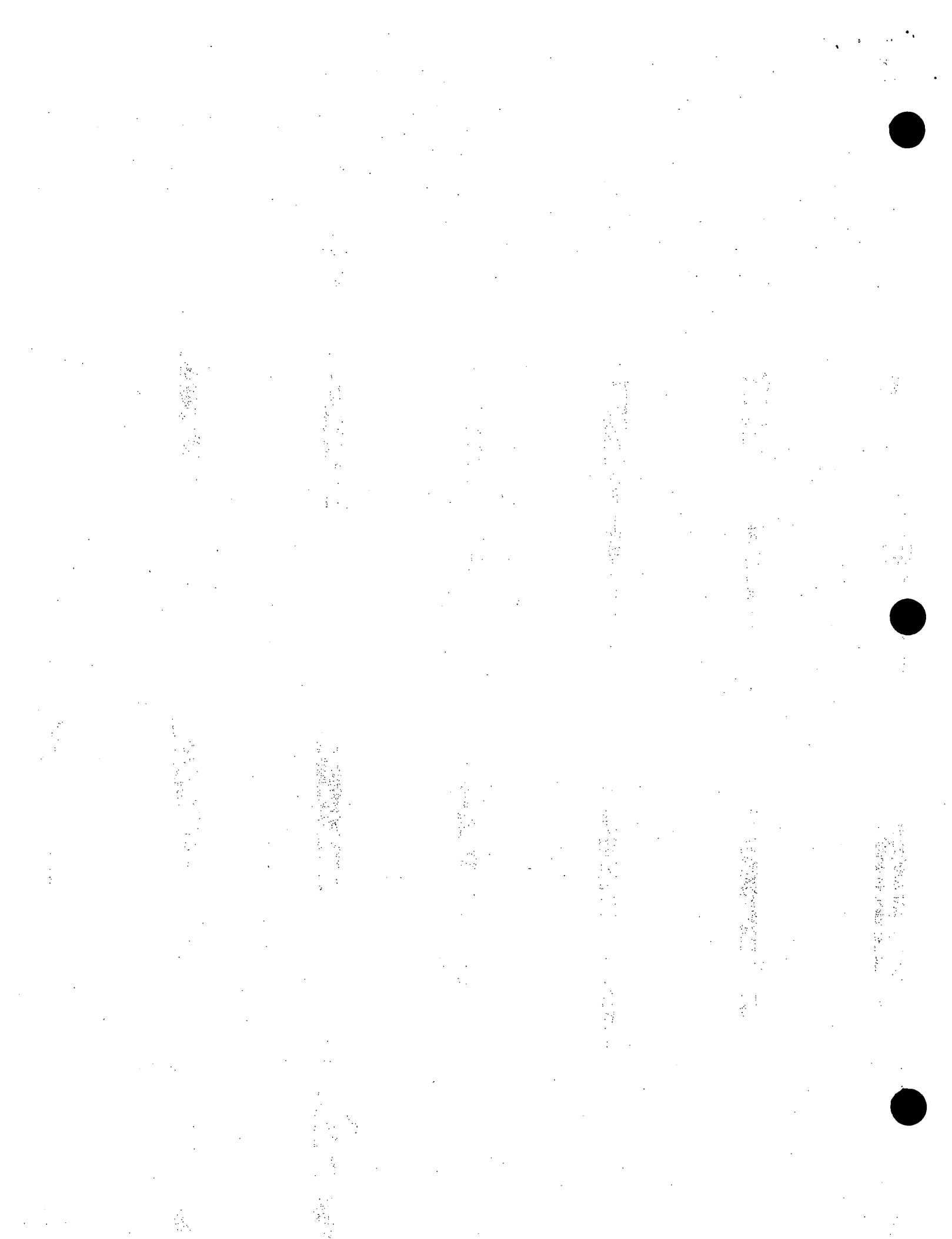
The proposals were then sent forward to SCUS and were discussed on March 8, 1983 with approval of the programs proposed but with some change in title.

MOTION 1:- "That Senate approve and recommend approval to the Board of Governors, as set forth in S.83-37 the proposed programs

- i) B.Sc. Honors in Applied Physiology
- ii) B.Sc. Honors in Sports Science"

MOTION 2:- "That Senate approve and recommend approval to the Board of Governors, as set forth in S.83-37 the proposed new course KIN. 499-15 - Individual Study Semester"

Subject to approval of this course by Senate and the Board of Governors, the Senate Committee on Undergraduate Studies approved waiver to permit first offering for Fall 83-3.



# SIMON FRASER UNIVERSITY

## MEMORANDUM

SCUS 83-7

To..... SENATE COMMITTEE ON UNDERGRADUATE.....  
..... STUDIES.....

From..... H. M. EVANS, SECRETARY,.....  
..... SENATE COMMITTEE ON UNDERGRADUATE  
..... STUDIES

Subject... New Honors Programs:.....  
1) B.Sc. Honors in Environmental/  
Applied Physiology, and  
2) B.Sc. Honors in Sports Science

Date..... MARCH 4, 1983.....

The proposals on new honors programs shown in the attached were considered by SCAP on February 16, 1983. There was approval of the following motion:

"That SCAP approve, and recommend approval to Senate, the following programs in Kinesiology, as set forth in SCAP 83-1

- a) B.Sc. Honors in Environmental/Applied Physiology
- b) B.Sc. Honors in Sports Science"

# SIMON FRASER UNIVERSITY

## MEMORANDUM

To..... Dr. J. Dickinson, Chairman.....  
..... Department of Kinesiology.....  
Subject.....  
From..... J.M. Munro.....  
..... Vice-President, Academic.....  
Date..... November 2, 1982.....

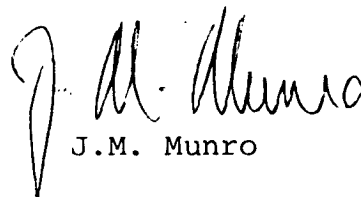
As a result of recent discussions which Gordon Bhakthan has had with Harry Evans and John Chase regarding Kinesiology's programmatic developments, I want to comment on several aspects of the situation.

The proposal recently submitted to SCAP by your Department sought to stream your present honors program into Applied Physiology and into Sports Science; in addition, the Department sought to attach specific degree titles to those streams. The only issue before the Committee was the appropriateness of distinctive degree titles since it was acknowledged that the question of streaming had ample precedence in the University and was a matter for review by the Senate Committee on Undergraduate Studies and Senate. The proposal to attach separate degree titles to the honors streams was defeated. Subsequently, the Acting Dean of Interdisciplinary Studies sought reconsideration of the motion given the limited number of members in attendance at the SCAP meeting when the motion was considered. The Secretary of SCAP asked each of the voting members in opposition to the proposal if they would sponsor a motion to reconsider. Each declined.

Stemming from your recent discussions with J. Chase and H. Evans, it is my understanding that the Department felt constrained by its present degree title, B.Sc.(Hons.) Kinesiology, to offering only those proposals which would add a further modifier to that degree title, e.g. B.Sc. (Hons.) Kinesiology - Sports Science; further, that the Department did not feel that it had the option of proposing separate and distinct major/honors program proposals in Applied Physiology and in Sports Science. As J. Chase and H. Evans have both conveyed to you, that option is clearly open to the Department if it wishes to pursue it.

Should the above option be the wish of the Department, formal proposals in each of these areas will need to be developed and submitted for approval through the usual University committees as well as an external assessment.

I hope these comments will serve to clarify the options open to your Department. If you have any further questions, please let me know.

  
J.M. Munro

:jeh

cc. S. Verdun-Jones  
G. Bhakthan  
H. Evans  
J. Chase

The proposals for a B.Sc (Kinesiology, Honors in Environmental/ Applied Physiology) and B.Sc (Kinesiology, Honors in Sports Science) were rejected by SCAP. The principal objection appears to have been the identifier attached to the degree.

Since the department is convinced of the academic merit of the programs, it is proposed that the identifiers are modified to

B.Sc (Hons in ~~Environmental/~~Applied  
Physiology)

and B.Sc (Hons in Sports Science)

These represent legitimate descriptions of the programs of study and are in keeping with precedents set within this University.

The programs outlined are unique in Canada. Since 1973 the Department of Kinesiology has indicated through calendar description three major areas of academic emphasis in the undergraduate program. (See attached calendar description). During these years, several new courses were mounted and the teaching and research orientation of the Department has developed an increasing emphasis in Environmental Physiology and Sports Science. The Rehabilitation Science emphasis became difficult to maintain as we were unable to attract professionally qualified faculty in that area. Hence that area of emphasis will be deleted from the calendar.

With the availability of new facilities in the Gordon Shrum Building of Basic and Applied Sciences, the Department is proposing to formally modify the special areas of emphasis to highly structured Honors programs. Under this proposal students may continue to graduate as Honors, majors and minors in Kinesiology but those who propose to follow the new highly structured honors program will be identified as having completed the special courses of study. The requirements for the two proposed Honors programs are attached.

As these programs are mere formalization of existing areas of emphasis, no additional resources are required to mount these programs.

B.Sc. HONORS DEGREE PROGRAM IN ~~ENVIRONMENTAL~~  
APPLIED PHYSIOLOGY

Division  
~~XXXX~~  
Lower level requirements

Faculty of Arts

Geography

GEOG 111-3 Physical Geography

Psychology

PSYC 101-3 Introduction to Psychology

Arts 6 hours

Faculty of Interdisciplinary Studies

Computing Science

CMPT 103-4 Introduction to a high level  
Programming Language I

Kinesiology

KIN. 100-3 Introduction to Human Structure  
and Function

KIN. 142-3 Introduction to Kinesiology

I.D.S. 10 hours

Faculty of Science

Biological Sciences

BISC 101-4 Introduction to Biology  
102-4 Introduction to Biology  
201-3 Cell Biology

Chemistry

CHEM 104-3 General Chemistry I  
105-3 General Chemistry II  
115-2 General Chemistry Laboratory I  
118-2 General Chemistry Laboratory II  
251-3 Organic Chemistry I  
256-2 Organic Chemistry Laboratory I

Mathematics

- a) MATH 151-3 Calculus I  
152-3 Calculus II  
or  
b) MATH 154-3 Calculus I for the Biological Sciences  
155-3 Calculus II for the Biological Sciences  
c) MATH 216-3 Introduction to Computational Methods  
or  
d) MATH 316-3 Numerical Analysis I

Physics

PHYS 101-3 General Physics I  
PHYS 102-3 General Physics II  
PHYS 131-2 General Physics Laboratory

Faculty of Science 43 hours

Total lower level 59 hours

~~XXXXXXXXXXXX~~/Applied Physiology (continued)

Upper <sup>Division</sup>~~XXXX~~ requirements and electives

Faculty of Arts 9 upper division credit hours from the following courses:

- GEOG 319-3 Physical Interactions in the Environment
- PSYC 300-3 Laboratory in Psychophysiology
- 335-3 Sensation I
- 336-3 Sensation II
- 381-3 Introduction to Physiological Psychology
- 382-2 Psychology of Complex Behavior
- 480-5 Physiological Psychology

Faculty of Interdisciplinary Studies

44 credit hours from the following specific courses:

- CMPT 340-3 Computers in Biomedicine
- KIN. 305-3 Human Physiology I
- 306-3 Human Physiology II
- 326-3 Functional Anatomy
- 336-3 Microscopic Anatomy (Histology)
- 401-4 Biomechanics of Human Movement
- 407-3 Human Physiology Laboratory
- 410-3 Exercise Physiology
- 415-3 Neural Control of Movement
- 430-3 Human Energy Metabolism
- 442-3 Biomedical Systems
- 480-3 Human Factors in Working Environments
- 485-4 Man Beneath the Sea
- 498-3 Undergraduate Research

Faculty of Science 9 credit hours from the following courses:

- BISC 311-3 Introduction to Environmental Toxicology
- 329-3 Introduction to Experimental Techniques
- 330-3 Terrestrial Environment
- CHEM 371-3 Chemistry of the Environment I

Thus 121 credit hours out of the 132 minimum required are specified. The remaining 11 credit hours are electives to be chosen from courses offered by any program in the University (excluding EDUC 401, 402 and 405).

B.Sc. HONORS DEGREE PROGRAM IN SPORTS SCIENCE

Division  
Lower Level requirements

Faculty of Arts

Psychology

PSYC 101-3 Introduction to Psychology

Sociology and Anthropology

S.A. 150-4 Introduction to Sociology

7 hours

Faculty of Interdisciplinary Studies

Computing Science

CMPT 103-4 Introduction to a high level  
programming Language I

4 hours

Kinesiology

KIN. 100-3 Introduction to Human Structure  
and Function  
110-3 Current topics in Human Nutrition  
142-3 Introduction to Kinesiology  
143-3 Exercise Management  
241-3 Sports Injuries-Prevention and  
Rehabilitation

15 hours

Faculty of Science

Biological Sciences

BISC 101-4 Introduction to Biology  
102-4 Introduction to Biology  
201-3 Cell Biology

11 hours

Chemistry

CHEM 104-3 General Chemistry I  
105-3 General Chemistry II  
115-2 General Chemistry Laboratory I  
118-2 General Chemistry Laboratory II  
251-3 Organic Chemistry I  
256-2 Organic Chemistry Laboratory I

15 hours

Mathematics

a) MATH 101-3 Introduction to Statistics

b) MATH 151-3 Calculus I  
MATH 152-3 Calculus II

or

c) MATH 154-3 Calculus I for the Biological Sciences  
155-3 Calculus II for the Biological Sciences

Physics

PHYS 101-3 General Physics I  
102-3 General Physics II

9 hours

6 hours

Total lower level hours

67 hours



B.Sc. Honors Degree Program in Sports Science (continued)

Division  
Upper Level requirements and electives

Faculty of Arts

Sociology and Anthropology

S.A. 315-4 Sociology of Leisure

4 hours

Faculty of Interdisciplinary Studies

Computing Science

CMPT 340-3 Computers in Biomedicine

3 hours

Kinesiology

KIN. 303-3 Kinanthropometry  
305-3 Human Physiology I  
306-3 Human Physiology II  
320-3 Cultural Aspects of Human Movement  
326-3 Functional Anatomy  
341-3 Sports Medicine I  
343-3 Fitness Appraisal and Guidance  
367-3 Psychology of Motor Performance  
and Skill Acquisition  
401-4 Mechanics of Human Movement  
407-3 Human Physiology Laboratory  
410-3 Exercise Physiology  
430-3 Human Energy Metabolism  
441-3 Sports Medicine II  
499-15 Individual Study Semester

55 hours

Thus 129 semester hours out of the 132 hours required, are specified. The remaining 3 hours are electives to be chosen from any academic program in the University. KIN. 499-15 is an integral and important component of the Sports Science Honors program. Students must obtain a Faculty Advisor before enrolling in the Individual Study Semester.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL FORM

1. Calendar Information

Department: KINESIOLOGY

Abbreviation Code: KIN. Course Number: 499

Credit Hours: 15 Vectors: \_\_\_\_\_

Title of Course: Individual Study Semester

Calendar Description of Course:

(See Attached)

Nature of Course

Prerequisites (or special instructions):

(See Attached)

What course (courses), if any, is being dropped from the calendar if this course is approved:

2. Scheduling

How frequently will the course be offered?

Semester in which the course will first be offered? 1983-3

Which of your present faculty would be available to make the proposed offering possible? All eligible faculty

3. Objectives of the Course

This course will enable the student to specialize in his or her area of emphasis within the constraints of an undergraduate degree program.

4. Budgetary and Space Requirements (for information only)

What additional resources will be required in the following areas:

Faculty

Staff

Library

Audio Visual

Space

NIL

Equipment

5. Approval

Date: \_\_\_\_\_

\_\_\_\_\_  
Department Chairman

\_\_\_\_\_  
Dean

\_\_\_\_\_  
Chairman

Honors Thesis

KIN 499-15

Individual Study Semester

Calendar Description of Course:

A full semester research project under the guidance of a faculty member who will chair a two-member supervisory committee. This course is required for students in the Sports Science Honors program. Students wishing to take this course must apply for admission by submitting a research proposal to the Departmental Undergraduate Curriculum Committee at least two months prior to the semester in which the course will be taken. An honors thesis must be written and must be submitted within 15 days after the classes end in the semester. Students completing KIN 499-15 may not include KIN 496, 498 or any other individual study semester course as part of the 132 hours of their degree program.

Prerequisites (or special instructions):

- (1) Completion of all the lower level required courses for the Honors program.
- (2) Completion of 90 semester hours which should include at least 22 semester hours of upper level Kinesiology courses appropriate to the subject of the intended research as determined by the Departmental Undergraduate Curriculum Committee.
- (3) At the time of application, have a minimum CGPA of 3.0 and a minimum GPA in Kinesiology of 3.0
- (4) Permission of the Department

**MEMORANDUM**

To..... Dr. E. Bannister, Chairman  
..... Department of Kinesiology  
.....  
Subject..... Majors and Honors in Kinesiology

From..... A.G. Sherwood  
..... Department of Chemistry  
.....  
Date..... May 18, 1982

Colin has asked me to respond to your memo of April 30, 1982.

The main reservation that might be expressed has to do with the lack of room for choice, especially in upper division courses. Does every Environmental/ Applied Physiology student really need "Man Beneath the Sea"? The Individual Study Semester provides some flexibility in the Sports Science Program but doesn't the matter of diet in sports training deserve some consideration at the 300 or 400 level?

They sound like good programs!

**SIMON FRASER UNIVERSITY**

**MEMORANDUM**

To..... Dr. E. Banister, Chairman  
..... Kinesiology Department  
.....  
Subject.....

From..... J. C. Irwin, Chairman  
..... Physics Department  
.....  
Date..... 1982 05 10

Dear Eric:

Thank you for the opportunity to review your proposal for your new Honors programs in Kinesiology. Both programs proposed appear to be timely and should prove attractive to students planning careers in these areas. The proposals have also been reviewed by our Under-Graduate Curriculum Committee and only one suggestion has arisen: It is felt that both programs would benefit substantially from the inclusion of our PHYS 131 Laboratory. The Laboratory would provide the students with excellent experience in carrying out basic electrical measurements and in handling common but important optical systems. I realize that this suggestion may sound somewhat parochial but we are convinced that your students would derive large benefits from having taken the P131 Laboratory. I would be happy to elaborate on these benefits at your convenience.

*Chuck*

J. C. Irwin

# SIMON FRASER UNIVERSITY

## MEMORANDUM

To.....Dr..E.W..Banister.....  
.....Chairman,,Kinesiology.Department....  
Subject.....Changes in Kinesiology Program.....

From...W...Turnbull.....  
...Department.of.Psychology.....  
Date...May 21, 1982.....

The proposed Honor's programs in Kinesiology look like fine additions to the university. One possible, though small, problem concerns upper level psychology courses for the Honors Degree Program in Environmental/Applied Physiology. Both Psyc 300 and 381 require Psyc 280 as a prerequisite. Will students in the program be able to meet this prerequisite, or will your department be requesting a waiver of the prerequisite. If the latter option is chosen, the Physiology group in our department would need to be contacted to secure their approval (i.e., Drs. Beyerstein, Davis, Diamond and Weinberg).

# SIMON FRASER UNIVERSITY

## MEMORANDUM

To.....Dr..E.W..Bannister.....  
.....Department.of.Kinesiology.....  
Subject...Changes.in.Kinesiology.Programme  
S. Roberts Memo - 1982-05-18

From...G.A..Rheumer,,Chairman,.....  
Undergraduate Studies.....  
...Department.of.Geography.....  
Date...June.1.,1982.....

The changes proposed by the Kinesiology Department pose no particular problem for this department. To date there has been no call for us to offer Geography 319-3, Physical Interactions in the Environment. At its meeting on May 27, the department agreed that the course could be mounted whenever there is a demand for it. Please let us know when you would require the course to be offered.

Geography 111-3, Physical Geography, is offered every semester and, in addition, at least once per year in the Evening Programme.

*G.A. Rheumer*

# SIMON FRASER UNIVERSITY

## MEMORANDUM

To..... Dr. E. W. Banister, .....  
..... Chairman, Kinesiology Dept. ....  
Subject... Degree Offerings .....  
From..... Dr. W. Krane, .....  
..... Acting Chairman, Psychology Dept. ....  
Date..... May 28, 1982 .....

I am responding to your memo of May 5, 1982, on behalf of Marilyn Bowman who is away on vacation.

Requiring PSYC. 101 presents no problem for us. The same is true for PSYC. 381. Indeed, the additional enrolment in these courses would be welcomed. However, you should be aware that, in the case of the latter, this course is offered only once a year, in the Fall semester (so that it may be followed by PSYC. 300 and 382 in the Spring). I'm not sure if this schedule will create any difficulties for you as far as the sequencing of your courses goes.

Requiring PSYC. 300 is definitely problematic. This course is offered once a year in the Spring semester and enrolment is limited to 15 students (due to limitations on the availability of equipment for use in the lab). It has filled up quickly each time that we have offered it. Increasing the enrolment ceiling or offering the course more often would tax an already limited resource since there are very few of our faculty who are available (and willing) to teach this course. However, we may be able to accommodate you to some extent by involving our Lab. Instructor in a more significant way in the instruction of PSYC. 300. This would require further thought and discussion.

Finally, I should point out that PSYC. 280 is a prerequisite for both PSYC. 300 and 381 and as such must be added to your list of course requirements.

I hope these comments will prove to be useful to you.

WK:rc

*W. Krane*